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<b>(51) International Patent Classification <sup>6</sup> :</b> <b>C12Q 1/68</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 99/50458</b> <b>(43) International Publication Date:</b> 7 October 1999 (07.10.99)
<b>(21) International Application Number:</b> PCT/US99/06963 <b>(22) International Filing Date:</b> 30 March 1999 (30.03.99)  <b>(30) Priority Data:</b> 60/080,375 1 April 1998 (01.04.98) US  <b>(71) Applicant (for all designated States except US):</b> THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Centers for Disease Control and Prevention, Office of Technology Transfer, Executive Park, Building 4, Suite 1103, Atlanta, GA 30329 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> WEIGEL, Linda, M. [US/US]; 1736 Wilson's Crossing Drive, Decatur, GA 30033 (US). TENOVER, Fred, C. [US/US]; 2044 Breckenridge Drive, Atlanta, GA 30345 (US).  <b>(74) Agents:</b> GREENE, Jamie, L. et al.; Jones & Askew, LLP, 37th floor, 191 Peachtree Street, N.E., Atlanta, GA 30303 (US).		<b>(81) Designated States:</b> AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> OLIGONUCLEOTIDE PROBES FOR DETECTING <i>ENTEROBACTERIACEAE</i> AND QUINOLONE-RESISTANT <i>ENTEROBACTERIACEAE</i>  <b>(57) Abstract</b>  Oligonucleotide probes for detecting <i>Enterobacteriaceae</i> species. Unique <i>gyrA</i> coding regions permit the development of probes specific for eight different species: <i>Escherichia coli</i> , <i>Citrobacter freundii</i> , <i>Enterobacter aerogenes</i> , <i>Enterobacter cloacae</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , <i>Providencia stuartii</i> and <i>Serratia marcescens</i> . The invention thereby provides methods for the species-specific identification of these <i>Enterobacteriaceae</i> in a sample, and detection and diagnosis of <i>Enterobacteriaceae</i> infection in a subject. Further, nucleic acids are provided for determining quinolone-resistant status of these <i>Enterobacteriaceae</i> .		